United States Department of Agriculture

National Agricultural Statistics Service

10 (03)

Corn, Soybeans, and Wheat Sold Through Marketing Contracts 2001 Summary

February 2003

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#### Introduction

Amid growing interest regarding changes in the structure of the Nation's grain and oilseed markets, the National Agricultural Statistics Service (NASS) is issuing this special report titled Corn, Soybeans, and Wheat Sold Through Marketing Contracts. All information contained within this report is based on the 2001 Agricultural Resource Management Study (ARMS), covering 2001 production. This is the first time NASS has issued a report on the characteristics of contract production.

The 2001 ARMS contained questions on both marketing and production contract arrangements, as farms can have both types. However, virtually all of the reported contracts for corn, soybeans, or wheat were marketing contracts, thus limiting this report to marketing contracts. The following information is provided to understand differences between the two types of contracts.

Marketing contracts refer to verbal or written agreements between the farmer (contractee) and the buyer (contractor) generally a processing and/or marketing company that set a price (or pricing mechanism) and determine an outlet for a specified quantity of a commodity. Most management decisions remain with the farmer, who retains ownership during the production cycle. The farmer assumes all risks of production, but shares price risk with the contractor.

Marketing contracts can take many forms, including:

forward sales of a growing crop, where the contract provides for later delivery and establishes a price before delivery;

price setting after delivery based on a formula that considers grade and yield; and

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pre-harvest pooling arrangements, in which the amount of payment received is determined by the net pool receipts for the quantity sold.

Production contracts involve paying the farmer a fee for providing management, labor, facilities, and equipment, while assigning ownership of the product to the contractor. The contract specifies in detail the production input supplied by the contractor, which may be a processor, feed mill, or another operation or business. The contract also specifies the quality and quantity of the particular commodity. Because the contractor controls the amount produced and the production practices, the contractor often dominates the terms of the contract.

Advantages of production contracts for farmers include the sharing of production and marketing risks with the contractor and the availability of financing either directly from the contractor or indirectly through other lenders who are more assured of loan repayment under this arrangement.

## Highlights

According to the most recent survey information, 62,300 U.S. farms utilized more than 82,100 corn, soybean or wheat marketing contracts during 2001. This information comes from the Agricultural Resource Management Study, conducted by USDA's National Agricultural Statistics Service (NASS) in late Winter and Spring, 2002. The number of contracts by crop shows over 44,700 farms with corn contracts, almost 27,700 farms with soybean contracts, and almost 9,700 farms with wheat contracts.

For the 2001 crop year, 10.4 percent of the total U.S. corn production, 8.6 percent of the soybeans, and 4.8 percent of the wheat was sold through marketing contracts. When corn and soybeans are combined, 10.0 percent of their total production was sold through marketing contracts. This compares to an earlier report from USDA's Economic Research Service showing 11.0 percent of the combined 1999 corn and soybean crops sold through marketing contracts. Wheat contracts totaled 6.0 percent of the 1999 crop production.

The weighted average price received by farmers for contracted corn was \$2.14 per bushel, compared to the NASS Market Year Average price (MYA) of \$1.97 for the 2001 crop. The weighted average price for contracted soybeans was \$4.63 per bushel, compared to the MYA of \$4.38, while wheat had a contract price of \$2.98, compared to the MYA of \$2.78 per bushel. Corn farms which sold identity-preserved varieties received \$2.19 per bushel, and reported receiving an average 24 cents premium above Number 2 Yellow corn. The average contract-specified premium, above Number 2 Yellow corn, was 22 cents.

Cooperatives and elevators, combined, were by far the primary contractor group. Respectively, 69, 64, and 71 percent of contracts for corn, soybeans and wheat were held by cooperatives or elevators. The contractor group representing processors, seed companies, and feed mills handled contracts for another 20, 30, and 18 percent of corn, soybeans, and wheat, respectively.

Some interesting observations appear when comparing contract terms across the three crops. While 16 and 18 percent of the corn and soybean contracts, respectively, carried confidentiality clauses, only 8 percent of the wheat contracts did so. The percent of farms with 2 or more contracts was roughly the same for corn and soybeans, at 12 and 14 percent, while the percent of wheat farms with 2 or more contracts was

only 7 percent. The number of contracts with no specified length was roughly the same for all three crops, ranging from 15 to 19 percent of all contracts. The percent of corn contracts with penalty clauses for reduced production was 23 percent, compared to 15 and 13 percent, respectively, for soybeans and wheat.

when comparing the delivery of contract production off the farm, some additional differences show up. Although the percent of contracts delivered off the farm is comparable between crops, ranging between 79 and 85 percent, the distances traveled for contract delivery versus non-contract delivery are significantly different. The mean miles for contract production delivered off the farm is almost twice the distance of available, non-contract delivery for corn and soybeans, and more than twice the distance for wheat.

1 Based on the 1999 Agricultural Resource Management Study as released by the Economic Research Service in their website "Farm Briefing Room - Questions and Answers."

## Highlights (continued)

For regions with sufficient information to publish, the percent of total production under contract was greatest in the Lake States for corn and soybeans, at 11.4 and 13.0 percent, respectively, while the Mountain States region had the highest percentage of wheat production under contract with 9.7 percent. The Mountain States region also had the highest average contract price for wheat, at \$3.26 per bushel, while the Corn Belt region was highest for corn at \$2.16 per bushel, and the Lake States held the highest price for soybeans under contract, at \$5.03 per bushel.

Across the three crops, partnerships held the highest percentage of multiple contracts, with over 20 percent of partnerships holding 2 or more contracts for corn and soybeans.

Across most domains (geographic, type of farm, or size of farm), the contractor group representing processors, seed dealers, and feed companies held a greater percentage of contract soybean production than the other two crops. The percentages ranged from a low of 18.0 percent of production for partnerships to 38.9 percent in the Corn Belt region.

Corn	Sold	Through	Marketing	Contracts:	4/
		United	States, 20	001	

Selected Characteristics	:	Units	:	All Farms
Corn for Grain 1/ Area Harvested Total Production Marketing year average price 2/ Farms with contracts	l :	1,000 Ac 1,000 Bu Dollars/Bu Number		68,808 9,506,840 1.97 44,735

Quantity marketed	armsan03.txt : 1,000 ви	988,833
Total value marketed	\$1,000	2,116,832
Average price per bushel	Dollars	2.14
Total contract production 3/	Percent	10.4
Farms with specified number of contracts:		
1 contract	Percent	87.7
2 or more contracts	Percent	
Percent marketed by contractor:		
Co-op or elevator	: Percent :	69.4
Seed, feed, processor, or other input company	: : : : : : : : : : : : : : : : : : :	19.7
All other contractors	: Percent :	10.9

Corn Sold Through Marketing Contracts: 4/ United States, 2001 (con.)

Selected Characteristics :	: Units :	All Farms
Contracts with confidentiality clauses	Percent	16.2
Contracts with specified lengths:	:	
No specified contract length 1 - 6 months 7 or more months	Percent : Percent : Percent :	16.2 48.2 35.6
Contracts that penalize producers for reduced production due to adverse weather	Percent :	23.2
Contracts that specified points of delivery off the operation	Percent	85.2
Number of miles to contract : delivery:		
0 - 10 miles 11 - 30 miles 31 or more miles	Percent : Percent : Percent :	55.5 23.4 21.2
Mean miles  Median miles  Pag	Number : Number : ge 5	21 10

	armsan03.txt		
Number of miles to nearest open market buyer:		:	
0 - 10 miles 11 - 30 miles 31 or more miles	: Percent : Percent : Percent	:	67.0 27.4 5.6
Mean miles Median miles	: : Number : Number	:	12 10

<sup>1/</sup> The 2002 Crop Production Annual Summary released in January 2003 is the

contract delivery:

Corn Sold Through Market	ing Contra	cts by Farr	m Production	n Region, 20	001 1/ 3/
Selected Characteristics	Unit	: Corn : Belt	: Lake : States		:All Other : Regions
		 :			
Corn for Grain 2/ Area Harvested Total Production	1,000 Ac 1,000 Bu	: : 33,690 :4,981,380	10,700 1,335,700		
Farms with contracts	Number	26,932	7,416	7,045	3,342
Quantity marketed	1,000 Bu	502,606	173,964	155,379	156,884
Total value marketed	\$1,000	1,083,946	354,440	327,812	350,634
Average price per bushel	Dollars	2.16	2.04	2.11	2.23
Total contract production :	Percent	10.1	13.0	7.9	13.0
Farms with specified number of contracts:					
1 contract	Percent	86.0	90.8	86.0	97.8
2 or more contracts	Percent	14.0	9.2	14.0	2.2
Percent marketed by contractor:					
Co-op or elevator	Percent	69.6	80.8	79.8	45.7
Seed, feed, processor,: or other input					
company	Percent	22.4	13.1	11.4	26.5
All other contractors	Percent	7.9	6.2	8.9	27.8
Number of miles to		-			

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source of data.

2/ The Crop Values 2002 Summary released in February 2003 is the source of

<sup>3/</sup> Quantity marketed divided by total production. 4/ Percent may not add due to rounding.

	: Number : Number	armsan0	3.txt 22 10	23 15	17 10	15 12
Number of miles to nearest open market buyer:		:				
	: Number Number	: :	10 10	19 10	10 10	14 10

Corn Sold Through Marketing Contracts by Type of Organization of Farm, 2001 1/

					rm, 2001 1/
Selected Characteristics	Units	: :Individual:	Partner- ship	: Family : Corp	:All Other : Farms
:	;	:			
Farms with contracts	Number	36,771	3,954	3,785	225
Quantity marketed	1,000 Bu	683,199	183,523	112,829	9,281
Total value marketed	\$1,000	1,452,422	397,070	245,967	21,374
Average price per bushel	Dollars	2.13	2.16	2.18	2.30
Farms with specified number of contracts:					
1 contract	Percent	89.8	75.8	81.8	48.3
2 or more contracts	Percent	10.2	24.2	18.2	
Percent marketed by contractor:		:			
Co-op or elevator	Percent	68.8	67.9	73.5	91.8
Seed, feed, processor,		-			
or other input company	Percent	20.5	23.1	10.1	
All other contractors	Percent	10.7	9.1	16.4	
Number of miles to contract delivery:					
Mean miles Median miles	Number Number	17 10	51 40	17 22	16 15
Number of miles to nearest open market buyer:					
	Number Number	13 10	12 12	11 12	5 5

<sup>1/</sup> Percent may not add due to rounding.

<sup>1/</sup> See regional map on page 24.
2/ The 2002 Crop Production Annual Summary released in January 2003 is the source of data.
3/ Percent may not add due to rounding.

Corn Sold Through Marketing Contracts by Economic Class of Farm, 2001 1/

Selected Characteristics	: : Units	:\$250,000 :And Over	:\$100,000 :\$249,999	:Less Than :\$100,000
	:	:		
Farms with contracts	: Number	18,744	14,289	11,701
Quantity marketed	1,000 Bu	: : 734,275	162,144	92,414
Total value marketed	\$1,000	: :1,577,394	347,855	191,583
Average price per bushel	: Dollars	: 2.15	2.15	2.07
Farms with specified number of contracts:	:	•		
1 contract	: Percent	: 86.9	86.0	90.9
2 or more contracts	: Percent	13.1	14.0	9.1
Percent marketed by contractor:		• • •		
Co-op or elevator	Percent	70.1	64.3	72.8
Seed, feed, processor, or other input company	Percent	19.9	19.2	18.7
All other contractors	: Percent	10.0	16.5	8.5
Number of miles to contract delivery:			_0.5	0.3
Mean miles Median miles	Number Number	18 10	27 10	18 10
Number of miles to nearest open market buyer:				
Mean miles Median miles	Number Number	12 10	12 10	13 10

<sup>1/</sup> Percent may not add due to rounding.

Farms that Harvested Identity-Preserved types of Corn: United States, 2001

Selected Characteristics		:	Units	:	All Farms
Farms with Identity-preserved types of	corn	:	Number	:	3,942

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Acres harvested	armsan03.txt	
Acres narvested	Acres	: 1,096,106
Total production	Bushels	: : 167,593,718
Average prices received per bushel	Dollars	2.19
Premium above the #2 yellow corn act received per bushel	tually : Cents	24
Premium above the #2 yellow corn spenin the contract per bushel	ecified : Cents	: : : 22

Soybeans Sold Through Marketing Contracts: 4/ United States, 2001

Selected Characteristics	: Units :	All Farms
Soybeans for Grain 1/ Area Harvested Total Production	1,000 Ac 1,000 Bu	72,975
Marketing year average price 2/	: Dollars/Bu :	2,890,682 4.38
Farms with contracts	Number	27,686
Quantity marketed	1,000 ви	247,215
Total value marketed	\$1,000	1,145,661
Average price per bushel	Dollars	4.63
Total contract production 3/	Percent	8.6
Farms with specified number of contracts:		
1 contract	Percent	86.0
2 or more contracts	Percent	14.0
Percent marketed by contractor:		
Co-op or elevator	Percent	63.5
Seed, feed, processor, or other input company	Percent :	29.5
All other contractors	Percent :	7.0

	armsan03.txt					
Selected Characteristics	:	Units	: All Farms			
Contracts with confidentiality cla	uses :	Percent	17.9			
Contracts with specified lengths:						
No specified contract leng <b>th</b> 1 - 6 months 7 or more months		Percent Percent Percent	19.5 49.0 31.5			
Contracts that penalize produc <b>ers</b> for reduced production due to adverse weather		Percent	15.4			
Contracts that specified points of delivery off the operation		Percent	83.2			
Number of miles to contract delivery:						
0 - 10 miles 11 - 30 miles 31 or more miles		Percent Percent Percent	47.4 27.3 25.2			
Mean miles Median miles		Number Number	27 15			
Number of miles to nearest open market buyer:						
0 - 10 miles 11 - 30 miles 31 or more miles		Percent Percent Percent	65.3 24.8 9.9			
Mean miles Median miles		Number Number	14 10			

<sup>1/</sup> The 2002 Crop Production Annual Summary released in January 2003 is the

Soybeans Sold Through Marketi	ng C	ontra	ts by	Farm Pr	oduc	tion Regi	on, 2001 1/ 3/
Selected Characteristics	:	Unit	:	Corn Belt	: :	Lake States	: All Other : Regions
Soybeans for Grain 2/ Area Harvested Total Production	1 1	L, 000 /	: : Ac: Bu: 1,	36,610 606,270		10,900 388,390	25,465 896,022

source of data. 2/ The Crop Values 2002 Summary released in February 2003 is the source of

<sup>3/</sup> Quantity marketed divided by total production. 4/ Percent may not add due to rounding.

a	rm	sa	nC	)3		txt	
---	----	----	----	----	--	-----	--

: Number	16,133	4,863	6,690
1,000 Bu	144,241	44,239	58,735
\$1,000	644,211	222,610	278,840
Dollars:	4.47	5.03	4.75
Percent :	9.0	11.4	6.6
: Percent	89.2	91.6	74.3
Percent :	10.9	8.4	25.7
:			
: Percent :	57.9	66.6	75.0
Percent:	38.9	23.7	10.8
: : : Percent :	3.2	9.7	14.2
: Number : : Number :	27 10	29 6	25 20
Number :	10 8	19 5	18 20
	1,000 Bu  \$1,000 Dollars Percent  Percent  Percent  Percent  Number  Number  Number	1,000 Bu: 144,241 \$1,000 644,211 Dollars 4.47 Percent 9.0  Percent 89.2 Percent 10.9  Percent 38.9 Percent 38.9 Percent 3.2  Number 27 Number 10	1,000 Bu 144,241 44,239 \$1,000 644,211 222,610 Dollars 4.47 5.03 Percent 9.0 11.4  Percent 89.2 91.6 Percent 10.9 8.4  Percent 38.9 23.7 Percent 3.2 9.7  Number 27 29 Number 10 6

Soybeans Sold Through Mrktg Contracts by Type of Organization of Farm, 2001 1/

Selected Characteristics	Units	: :Individual:	Partner- ship	: Family : Corp	:All Other : Farms
;	;				
Farms with contracts	Number	22,572	2,450	2,565	100
Quantity marketed	1,000 Bu	170,164	49,041	25,326	2,684
Total value marketed	\$1,000	772,893	235,567	124,959	12,243
Average price per bushel	Dollars	4.54 Page 11	4.80	4.93	4.56

<sup>1/</sup> See regional map on page 24.
2/ The 2002 Crop Production Annual Summary released in January 2003 is the source of data.
3/ Percent may not add due to rounding.

		armsan03.txt			
Farms with specified number of contracts:		•			
1 contract	: Percent	86.1	79.8	92.2	50.2
2 or more contracts	Percent	13.9	20.2	7.8	49.8
Percent marketed by contractor:	:	:			43.0
Co-op or elevator	: : Percent	60.0	78.8	60.2	38.5
Seed, feed, processor, or other input	:	:			
company	: Percent	32.0	18.0	31.8	61.5
All other contractors	Percent	8.1	3.2	8.0	0.0
Number of miles to contract delivery:	:	:			
Mean miles Median miles	Number Number	: : 27 : 15	43 15	19 15	10 10
Number of miles to nearest open market buyer:	•	:			
Mean miles Median miles	: Number Number	: : 15 : 10	17 8	10 7	(D)

Soybeans Sold Through Marketing Contracts by Economic Class of Farm, 2001 1/

Selected Characteristics	: : Units		:\$100,000- :\$249,999	
	:	:		
Farms with contracts	Number	11,004	7,500	9,182
Quantity marketed	1,000 Bu	162,464	44,011	40,740
Total value marketed	\$1,000	764,793	200,894	179,974
Average price per bushel	: : Dollars	4.71	4.56	4.42
Farms with specified number of contracts:				
1 contract	: Percent	89.5	92.4	76.5
2 or more contracts	Percent	10.5	7.7	23.5
Percent marketed by contractor:	-	-		
Co-op or elevator	: : Percent Page 12	64.1	68.4	56.0

D/ Withheld to avoid disclosure. 1/ Percent may not add due to rounding.

Seed, feed, processor, or other input company	: : : Percent	: : : 30.5	21.1	34.5
	:	:		34.3
All other contractors	: Percent	5.4	10.5	9.5
Number of miles to contract delivery:	: :	:		
Mean miles Median miles	: : Number : Number	: : 37 : 15	16 8	21 20
Number of miles to nearest open market buyer:	: :	: :		
Mean miles Median miles	 : Number : Number	: : 12 : 8	13 10	18 12

<sup>1/</sup> Percent may not add due to rounding.

wheat Sold Through Marketing Contracts: 4/ United States, 2001

Selected Characteristics	: Units :	All Farms
Wheat for Grain 1/ Area Harvested Total Production Marketing year average price 2/	1,000 Ac : 1,000 Bu : Dollars/Bu :	48,633 1,957,043 2.78
Farms with contracts	Number	9,680
Quantity marketed	1,000 Bu	94,492
Total value marketed	\$1,000	281,739
Average price per bushel	Dollars :	2.98
Total contract production 3/	: : : Percent :	4.8
Farms with specified number of contracts:		
1 contract	Percent	92.6
2 or more contracts	Percent	7.4
Percent marketed by contractor:		
Co-op or elevator	Percent	70.5
Seed, feed, processor, or other input company	: Percent	18.2
All other contractors	: Percent :	11.3

# Wheat Sold Through Marketing Contracts: 4/ United States, 2001 (con.)

Selected Characteristics	: Units :	 All Farms
Contracts with confidentiality clauses	Percent	8.0
Contracts with specified lengths:		
No specified contract length 1 - 6 months 7 or more months	Percent : Percent : Percent : Percent :	15.5 46.1 38.4
Contracts that penalize producers for reduced production due to adverse weather	Percent	12.7
Contracts that specified points of delivery off the operation	Percent :	79.46
Number of miles to contract delivery:		
0 - 10 miles 11 - 30 miles 31 or more miles	Percent : Percent : Percent :	47.1 34.6 18.3
Mean miles Median miles	Number :	28 12
Number of miles to nearest open market buyer:		
0 - 10 miles 11 - 30 miles 31 or more miles	Percent : Percent : Percent :	62.1 29.4 8.6
Mean miles Median miles	Number : Number :	13 9

<sup>1/</sup> The 2002 Crop Production Annual Summary released in January 2003 is the source of data.

Wheat Sold Through Marketing Contracts by Farm Production Region, 2001 1/ 3/

: Corn : Northern : Mountain :All Other : Belt : Plains : : Regions Selected Characteristics: Unit

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<sup>2/</sup> The Crop Values 2002 Summary released in February 2003 is the source of

<sup>3/</sup> Quantity marketed divided by total production.
4/ Percent may not add due to rounding.

Wheat for Grain 2/ Area Harvested Total Production	: 1,000 Ac: : 1,000 Bu:	2,778 171,312	20,924 756,366	8,062 276,917	16,869 752,448
Farms with contracts	Number	1,666	1,946	1,636	4,432
Quantity marketed	1,000 Bu	6,585	18,528	26,878	42,501
Total value marketed	\$1,000	16,793	54,863	87,597	122,486
Average price per bushel	Dollars :	2.55	2.96	3.26	2.88
Total contract production	Percent :	3.8	2.4	9.7	5.6
Farms with specified number of contracts:					
1 contract	Percent :	100.0	99.5	59.0	99.1
2 or more contracts	Percent :	0.0	0.5	41.0	0.9
Percent marketed by contractor:					
Co-op or elevator	Percent :	64.1	68.4	74.2	70.2
Seed, feed, processor, or other input company	Percent :	19.2	12.4	9.5	26.0
All other contractors	Percent :	16.7	19.1	16.4	3.8
Number of miles to contract delivery:	:				3.0
Mean miles Median miles	Number Number	8 7	13 12	56 14	24 7
Number of miles to nearest open market buyer:					
Mean miles : Median miles :	Number :	6 3	9 6	21 14	13 6

Wheat Sold Through Marketing Contracts by Type of Organization of Farm, 2001 1/

Selected Characteristics	:	Units	: :	Individual	:	All Other Farms
Farms with contracts	:	Number	:	7,109 Page 15		2,571

<sup>1/</sup> See regional map on page 24.2/ The 2002 Crop Production Annual Summary released in January 2003 is the source of data.3/ Percent may not add due to rounding.

	. arm	san03.txt	
Quantity marketed	1,000 ви:	51,473	43,019
Total value marketed	\$1,000	149,509	132,230
Average price per bushel	Dollars :	2.90	3.07
Farms with specified number of contracts:			
1 contract	Percent :	96.6	81.3
2 or more contracts	Percent :	3.4	18.7
Percent marketed by contractor:			
Co-op or elevator	Percent :	61.3	81.6
Seed, feed, processor, or other input company	Percent :	24.0	11.2
All other contractors :	Percent :	14.8	7.1
Number of miles to : contract delivery:	į		
	Number Number	33 10	20 14
Number of miles to nearest: open market buyer:	:		
Mean miles Median miles	Number Number	12 6	16 14

<sup>1/</sup> Percent may not add due to rounding.

Wheat Sold Through Marketing Contracts by Economic Class of Farm, 2001 1/

Selected Characteristics	: : Units			-:Less Than :\$100,000
		:		
Farms with contracts	Number	4,033	2,118	3,529
Quantity marketed	1,000 Bu	61,122	16,208	17,162
Total value marketed	\$1,000	182,686	46,955	52,099
Average price per bushel	Dollars	2.99	2.90	3.04
Farms with specified number of contracts:				
1 contract	: : Percent	91.9	95.5	91.6
2 or more contracts	: Percent age 16	8.1	4.5	8.4

Percent	marketed	bν
contra		,

Co-op or elevator	: Percent	: 75.9	47.1	73.7
Seed, feed, processor, or other input	:	:	.,	73.7
company	Percent	18.9	23.4	10.8
All other contractors	Percent	5.3	29.6	15.5
Number of miles to contract delivery:				
Mean miles Median miles	: : Number : Number	: 44 8	15 12	19 12
Number of miles to nearest open market buyer:	: :			
Mean miles Median miles	: Number : : Number :	17 10	17 12	10 5

<sup>1/</sup> Percent may not add due to rounding.

## Farm Production Regions

Northeast	CT,	DE,	ME,	MD,	MA.	NH.	NJ.	NY,	PA.	RT.	VT
Lake States	MI,	MN.	WI.	,	,		,	,	,	,	• •
Corn Belt	IL.	IN,	IA.	MO,	OH.						
Northern Plains			ND,								
Appalachian	KY,	NC,	TN,	VA,	WV.						
Southeast			GA,								
Delta St <b>ates</b>	AR,	LA,	MS.								
Southern Plains	OK,	TX.									
Mountain	AZ,	CO,	ID,	MT,	NV,	NM,	UT.	WY.			
Pacific 🙀		OR,		·	•	,	,				

## Survey Procedures and Reliability

Survey Procedures: The contract data contained in this publication are the result of a sample survey of nearly 13,313 farms and ranches contacted in February through April 2002 in all States except Alaska and Hawaii. The Agricultural Resource Management Study (ARMS) covers the population of farms in the 48 contiguous States defined as "all establishments which sold or would normally have sold at least \$1,000 of agricultural products during the previous year." These establishments are not only traditional agricultural operations such as grain farms and dairy operations, but also specialty farms such as orchards, nurseries, and those producing fish in captivity.

The Agricultural Resource Management Study is a multiple frame survey which utilizes a list frame and a complementary area frame. The list frame typically represents the larger, more specialized operations

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contributing the greater portion of the data expansions. The area frame provides coverage for the smaller operations that are not available for sampling from the list. Since all of the operators on the list frame are also part of the area frame, rigorous procedures are followed to be certain that an operation is only included in the data expansions once. These multiple frame expansions are unbiased and provide more precise expansions than could be obtained by using the area frame alone.

Special training occurs for field enumerators prior to the Agricultural Resource Management Study period to insure consistent and proper execution of survey procedures in farm determination, data collection, and editing of detailed expense and income data. All questionnaires are personally enumerated.

Field and office staff review data using both manual and computer-based procedures. Questionnaires are reviewed for consistency, data relationships, and completeness. Past analysis has shown approximately half of the edits simply correct for data misplacement errors. In cases where respondents are unable or unwilling to report data for any item on the questionnaire, the field enumerators or survey statisticians can impute a value. For income, related debt/asset data, and a few expense items statisticians are allowed to enter a (-1) to indicate a missing value and an algorithm within the edit will compute and input the missing value based on similar size and type of operations. The computer generated imputation has not been implemented for all expenditure data because NASS analysis has shown there are significantly fewer missing because NASS analysis has shown there are significantly fewer missing data cells on expenses than on income. Missing values for expense items, where no data are reported, are edited to a positive value based on other reported values from similar operations by the survey statistician.

Data Comparability: This publication includes mostly new and previously unpublished statistics for 2001 corn, soybeans and wheat sold through marketing contracts. The data are presented at the following levels or domains: National, by geographic region, Farm Production Region, Economic sales Class, and type of farm organization. Efforts have been made to identify comparable statistics, but few exist at the National or domain levels published herein.

Data Reliability: All data published in this report are survey indications expanded to represent U.S. and specified domain levels. effort has been made to publish best estimates, largely because there is little or no recorded history on the data items, and a lack of any comparable, alternative information from other known sources.

## Survey Procedures and Reliability (continued)

Two types of errors, sampling and nonsampling, are possible in an indication based on a sample survey. Both types affect the "precision" of the data. Sampling error occurs because a complete census is not taken. The sampling error measures the variation in statistics from the average of all possible samples. A statistic of 100 with a sampling error of 1 would mean that chances are 19 out of 20 that the statistics from all possible samples averaged together would be between 98 and 102, which is the survey estimate plus or minus two times the sampling error. The sampling error expressed as a percent of the estimate is called the relative sampling error, or coefficient of variation.

Data from sample surveys are also influenced by non-sampling errors which are not always measurable or known. Non-sampling errors may be introduced by enumerators, respondents, questionnaire design, or field Page 18

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maintain survey accuracy through proper training of all individuals involved with the survey, detailed review and verification of data, and analysis of data for comparability and consistency.

Relative sampling errors are provided for the major data items published in this report, with a range of values for each commodity representing the various domains within each major data item. For example: the number of farms with corn contracts at the U.S. level had a relative sampling error of 6.0 percent, while farms with corn contracts in the Lake States geographic region had a relative sampling error of 19.3 percent. For this report, relative sampling errors are listed on the next page.

Selected Characteristic	Relative Sampling Errors			
Wheat	Corn	Soybeans		
Farms with contracts - 31.5 percent Quantity marketed - 27.0 percent Total value marketed - 25.7 percent Average price per bushel - 3.4 percent	6.0 - 19.3 percent 9.6 - 22.1 percent 9.4 - 21.6 percent 0.9 - 2.0 percent	10.4 - 24.7 percent 12.1 10.6 - 22.0 percent 16.7 10.8 - 22.5 percent 15.8 1.8 - 4.6 percent 1.7		
Farms with specified number of number of contracts:				
1 contract - 28.0 percent	3.1 - 11.8 percent	4.0 - 13.9 percent 1.8		
2 or more contracts - 71.9 percent	21.8 - 47.7 percent	26.4 - 66.5 percent 37.6		
Percent marketed by contractor:				
Co-op or elevator - 37.7 percent	4.9 - 13.9 percent	6.0 - 16.0 percent 9.3		
Seed, feed, processor, or other input company 31.1 - 49.1 percent	16.4 - 45.9 percent	14.9 - 47.0 percent		
All other contractors 42.9 - 62.0 percent	17.9 - 58.4 percent	27.3 - 62.3 percent		
Contracts with confidentiality clauses 53.9 - 121,5 percent	25.3 - 92.2 percent	23.8 - 80.2 percent		

Contracts with specified lengths	armsan03.txt :		
No specified contract length 39.7 - 100.4 percent	21.1 - 77.4 percent	36.3 - 111.6 percent	t
1 - 6 months 22.0 - 37.4 percent	9.2 - 49.4 percent	10.6 - 31.2 percent	
7 or more months 30.4 - 59.9 percent	13.3 - 49.0 percent	20.3 - 79.3 percent	
Contracts that penalize producers for reduced production due to adverse weather 51.8 - 80.1 percent	19.3 - 71.6 percent	26.4 - 94.9 percent	
Contracts that specified points of delivery off the operation 7.7 - 18.8 percent	1.6 - 22.8 percent	7.3 - 42.0 percent	
Number of miles one-way to the point of delivery:			
0 - 10 miles 17.0 - 63.0 percent	10.9 - 61.0 percent	13.4 - 42.9 percent	
11 - 30 miles 29.1 - 38.7 percent	17.7 - 60.0 percent	26.6 - 75.9 percent	
31 or more miles 34.8 - 78.6 percent	21.8 - 63.0 percent	26.6 - 57.4 percent	
If the operator sold the commodity on the open market, the number of miles traveled one-way to the nearest buyer:			
0 - 10 miles - 61.3 percent	6.0 - 47.3 percent	11.7 - 40.4 percent	6.0
11 - 30 miles 27.5 - 47.1 percent	16.7 - 66.3 percent	37.1 - 63.4 percent	
31 or more miles 54.4 - 77.8 percent	46.3 - 105.2 percent	31.6 - 114.3 percent	
All Other Regions; Economic Sales Class Less Than \$100,000; All Other Type of Organization of Farms - 120.0 percent	1.8 - 111.1 percent	1.3 - 85.6 percent	1.8
Identity-Preserved types of Corn applicable	4.0 - 21.0 percent	Not applicable	Not

Released February 27, 2003, by the National Agricultural Statistics Service (NASS), Agricultural Statistics Board, U.S. Department of Agriculture. For information on "Corn, Soybeans, and Wheat Sold Through Marketing Contracts" call Scott Cox at 202-720-6146, office hours 7:30 a.m. to 4:00 p.m. ET.

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